

**PATENT** 

Attorney Docket No. 211843-00032

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Thomas N. Horsky

Serial No.:

10/519,699

Filed:

September 14, 2005

Title:

Ion Implantation Device and a Method of

Semiconductor Manufacturing by the

Implantation of Boron Hydride Cluster Ions

Group Art Unit:

2881

Confirmation No.:

6928

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

## **INFORMATION DISCLOSURE STATEMENT**

This document is being filed pursuant to the provisions of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

### I. TIME OF FILING

X	This	document is being filed in accordance with 37 C.F.R. § 1.97(b) as it is believed to
	be fil	ed:
		within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d);
		within three months of the date of entry of the national stage as set forth in § 1.491 in an international application;
	X	before the mailing of a first Office action on the merits; or before the mailing of a first Office action after the filing of a request for continued examination under § 1.114.

OR

Application No. 10/519,699 Page 2 of 3 This document is being filed in accordance with 37 C.F.R. § 1.97(c) as it is believed to be filed before the mailing date of any of a final action under § 1.113, a notice of allowance under § 1.311, or an action that otherwise closes prosecution in the application. This Statement is accompanied by one of: the following statements; or Each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the information disclosure statement. The fee set forth in § 1.17(p). Fee Transmittal Form PTO/SB/17 is attached. OR This document is being filed in accordance with 37 C.F.R. § 1.97(d) as it is believed to be filed on or before the payment of the issue fee and is accompanied by one of the following statements and the fee set forth in § 1.17(p). Fee Transmittal Form PTO/SB/17 is attached. Each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the information disclosure statement. Applicant(s) respectfully request that the documents listed on the attached Form PTO/SB/08A and/or Form PTO/SB/08B be considered and made of record.

#### **OR**

It is requested that this Statement and enclosures be placed in the file. It is understood that the cited references will not be considered by the Office.

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## II. FOREIGN PATENT OFFICE COMMUNICATIONS (if applicable)

_X	One or more of the items of information contained in the information disclosure
	statement were cited in a communication from a foreign patent office in a counterpart foreign application.
	A copy of the search report is attached.
III. (	COPIES OF CITED REFERENCES
	Because this application was filed prior to June 30, 2003, copies of the document(s) listed on the attached Form(s) PTO/SB/08A and/or PTO/SB/08B are attached.
	OR
X	Because this application was filed after June 30, 2003, copies of non-U.S. patent citations as listed on the attached Form(s) PTO/SB/08A and/or PTO/SB/08B are attached.
AND (	if applicable)
	All cited U.S. pending (non-published) applications listed on Form PTO/SB/08A are stored in the USPTO's IFW system. Copies are therefore not provided.
	OR
	One or more of the cited U.S. pending (non-published) applications (filed prior to June 30, 2003) as listed on Form PTO/SB/08A has not been stored in the USPTO's IFW system. Copies for the unstored applications are provided herewith.

### IV. REMARKS

The above constitutes information that an Examiner may find material to the examination of the subject application; however, it does not negate the patentability of the subject invention. Furthermore, it is not intended that submission of this information be taken as a representation that a search has been made or that no information which is more material exists.

The Commissioner is hereby authorized to charge any fees which may be required or credit any overpayment with respect to this communication to Deposit Account No. 50-1214. A duplicate copy of this communication is enclosed.

By:

Date: December 6, 2006

John S. Partiaguas
Attorney or Agent for Applicant(s)

Reg. No. 31,051

PTO/SB/21 (09-06) Approved for use through 03/31/2007, OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. **Application Number** 10/519,699 RANSMITTAL Filing Date September 14, 2005 First Named Inventor **FORM** Thomas N. Horsky Art Unit 2881 **Examiner Name** Not Yet Assigned all correspondence after initial filing) Attorney Docket Number 211843-00032 Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance Communication to TC Fee Transmittal Form Drawing(s) Appeal Communication to Board Fee Attached Licensing-related Papers of Appeals and Interferences Appeal Communication to TC Petition Amendment/Reply (Appeal Notice, Brief, Reply Brief) Petition to Convert to a Proprietary Information After Final Provisional Application Power of Attorney, Revocation Status Letter Affidavits/declaration(s) Change of Correspondence Address Other Enclosure(s) (please Identify **Terminal Disclaimer Extension of Time Request** below): Request for Refund **Express Abandonment Request** CD, Number of CD(s) \_ Information Disclosure Statement Landscape Table on CD Certified Copy of Priority Remarks Document(s) Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Name Katten Muchin Rosenman Signature Printed name J∮hn S. Paniaguas Date Reg. No. December 6, 2006 31.051 CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature

Typed or printed name Mary Kay Darr

Dan

Date December 6, 2006

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Under the Paperwork Reduction Act of 1995 no persons are required to respond to a collection of information unless it displays a valid OMB control number Effective on 12/08/2004. Complete if Known parstant to the Consolidated Appropriations Act, 2005 (H.R. 4818). 10/519.699 Application Number RANSMITTAI Filing Date September 14, 2005 աFor FY 2006 First Named Inventor Thomas N. Horsky **Examiner Name** Not Yet Assigned Applicant claims small entity status. See 37 CFR 1.27 Art Unit N/A TOTAL AMOUNT OF PAYMENT 211843-00032 Attorney Docket No. METHOD OF PAYMENT (check all that apply) Check Credit Card Money Order None Other (please identify): Deposit Account Deposit Account Number: 50-1214 Deposit Account Name: Katten Muchin Rosenman For the above-identified deposit account, the Director is hereby authorized to: (check all that apply) Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee Charge any additional fee(s) or underpayments of fee(s) Credit any overpayments under 37 CFR 1.16 and 1.17 WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. **FEE CALCULATION** 1. BASIC FILING, SEARCH, AND EXAMINATION FEES **FILING FEES** SEARCH FEES **EXAMINATION FEES** Small Entity **Small Entity** Small Entity **Application Type** Fee (\$) Fee (\$) Fees Paid (\$) Fee (\$) Fee (\$) Fee (\$) Fee (\$) Utility 300 150 500 200 250 100 200 Design 100 100 50 130 65 Plant 200 100 300 150 160 80 300 Reissue 150 500 600 250 300 Provisional 200 100 0 0 0 0 2. EXCESS CLAIM FEES Small Entity Fee Description Fee (\$) Fee (\$) Each claim over 20 (including Reissues) 50 Each independent claim over 3 (including Reissues) 200 100 Multiple dependent claims 360 180 **Total Claims Extra Claims** Fee Paid (\$) Multiple Dependent Claims Fee (\$) Fee Paid (\$) Fee (\$) HP = highest number of total claims paid for, if greater than 20. Indep. Claims Extra Claims Fee (\$) Fee Paid (\$) - 3 or HP = HP = highest number of independent claims paid for, if greater than 3. 3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). Number of each additional 50 or fraction thereof Total Sheets Extra Sheets \_ (round up to a whole number) x 4. OTHER FEE(S) Fees Paid (\$) Non-English Specification, \$130 fee (no small entity discount) Other (e.g., late filing surcharge): SUBMITTED BY Registration No. 31,051 Telephone 312-902-5200 Signature Name (Print/Type) John S. Paniaguas Date December 6, 2006

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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	Substitute for form 1449A/PTO			Complete if Known			
OINFORMATION DISCLOSURE			Application Number		10/519,699		
STA	STATEMENT BY APPLICANT			Filing Date		September 14, 2005	
				First Named Inventor		Thomas N. Horsky	
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Chart	1-00	of 1	***	Attorney Docket Number		211843-00032	
(use	SEMIL	01   1	C T 4	-		211643-00032	
					CUMENTS		
Examiner Initials*	Cite No. 1	Document Number  Number – Kind Code <sup>2</sup> (if		ication Date -DD-YYYY	Name of Patentee or Applicant of Cited	Pages, Columns, Lines, Where Relevant Passages or Relevant	
		known)			Document	Figures Appear	
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		FOREIG	N PATENT DO	CUMENTS		
	Cite	Foreign Patent Document			Pages, Columns,	
Examiner Initials*	No.	Country Code <sup>3</sup> -Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	B1	Intl. Search Report, PCT/US03/20197				

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	OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher city and/or country where published	T <sup>2</sup>		
	C1	BOGGIA et al., Study of a Trapped Ion Source, IEEE Journal, pp. 1433-35			
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). See Kinds codes of USPTO Patent Documents as <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. See Kinds codes of USPTO Patent Documents as <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. See Kinds codes of USPTO Patent Documents as <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. See Kinds codes of USPTO Patent Documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Skind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.